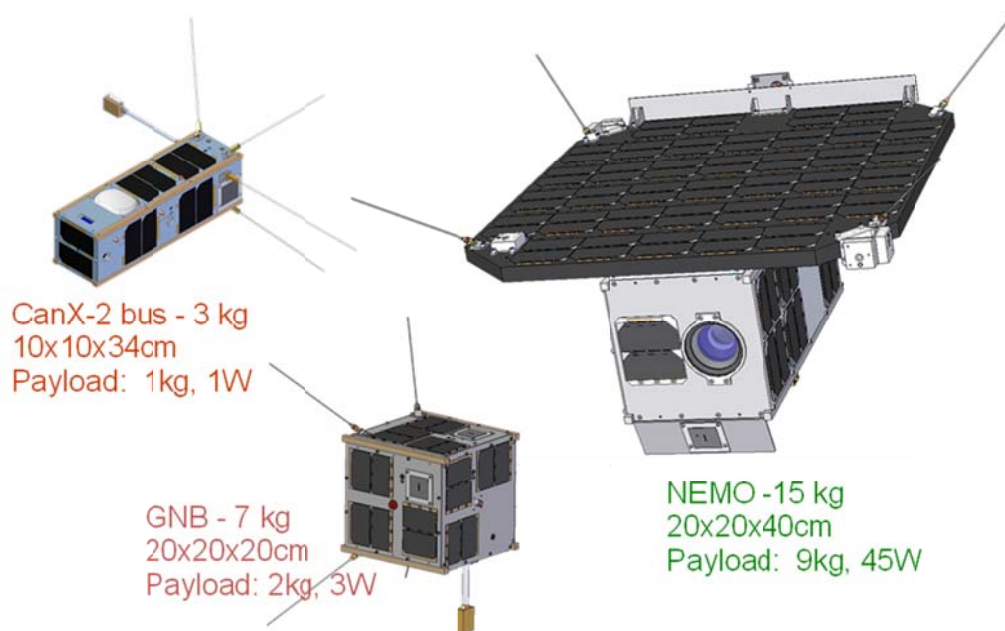


SFL Satellite Bus Comparison – Three Platforms



	CanX-2	NTS	GNB	NEMO
Spacecraft Mass	3.5 kg	6.5 kg	7.5 kg	15 kg
Spacecraft Volume	10 x 10 x 34 cm	20 x 20 x 20 cm	20 x 20 x 20 cm	20 x 20 x 40 cm
Peak Power 25°C,BOL	2-7 W	4-7 W	7-9 W	80 W
Payload Mass	1 kg	2 kg	2 kg	9 kg ⁽⁴⁾
Payload Volume	1000 cm ³	1700 cm ³	1700 cm ³	8000 cm ³
Payload Power @duty cycle	1-2 W @100%	2 W @20-30%	3-4 W @100% 6 W max	45 W @40% min 65 W max
ACS stability	~ 2 ° ⁽¹⁾	Passive	~ 2 ° ⁽²⁾ ~ 60 '' ⁽³⁾	~ 2 ° ⁽²⁾ ~ 60 '' ⁽³⁾
Downlink	32 k – 1 Mbps	32 k – 1 Mbps	32 k – 2 Mbps	32 k – 2 Mbps ⁽⁵⁾
Service	2008 Active	2008 Active	2010 (AISSat-1) 2011 (BRITE, CanX-4&5)	2011

1. Nadir pointing with magnetometer, sun sensor and one reaction wheel
2. With magnetometer, fine sun sensor and three reaction wheels
3. With star-tracker
4. Including payload-specific equipment
5. Using existing SFL transmitter; NEMO has sufficient power for a 30 Mbps X-band transmitter at 20% duty cycle